

**WEST**  

L3: Entry 4 of 5

File: DWPI

Oct 10, 1984

DERWENT-ACC-NO: 1984-251744

DERWENT-WEEK: 198441

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TITLE: Hydrocarbon-based gasoline - contains oxygenated additives including ethanol with more than the azeotropic conc. of water, and butanol

INVENTOR: MAJUNKE, H J; MULLER, H

PATENT-ASSIGNEE:

ASSIGNEE	CODE
UNION RHEIN BRAUNKOHLEN	UNIR

PRIORITY-DATA: 1983DE-3307505 (March 3, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP <u>121089</u> A	October 10, 1984	G	012	
DE 3478465 G	July 6, 1989		000	
EP <u>121089</u> B	May 31, 1989	E	000	

DESIGNATED-STATES: AT BE CH DE FR GB IT LI LU NL SE AT BE CH DE FR GB IT LI LU NL SE

CITED-DOCUMENTS: A3...198619; DE 3040062; GB 2077290; No-SR.Pub; FR 2255371

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 121089A	February 27, 1984	1984EP-0102024	

INT-CL (IPC): C10L 1/02

ABSTRACTED-PUB-NO: EP 121089A

BASIC-ABSTRACT:

An engine fuel contains: (i) a predominantly hydrocarbon base fuel, pref. premium or regular grade gasoline; (ii) ethanol (max. concn. 10 vol%), contg. more water than the ethanol/ water azeotrope; (iii) butanol(s) (max. concn. 10 vol%); and (iv) methanol (max. concn. 5 vol%) and/or methyl tert. butyl ether (max. concn. 15 vol%) and/or acetone (max. concn. 15 vol.%).

USE/ADVANTAGE - The fuel can be used in existing gasoline engines without carburettor or engine adjustment. Component (ii) is readily available as fuel alcohol (bioethanol). The fuel can satisfy the DIN standard, can be handled in the existing distribution system, is miscible with all available standard fuels, and does not give increased emissions or increased engine wear. Dependence on imported hydrocarbons is reduced.

ABSTRACTED-PUB-NO:

EP 121089B

EQUIVALENT-ABSTRACTS:

Motor-fuel, consisting of a basic hydrocarbon fuel or predominantly hydrocarbons contg. fuel and addns. of alcohols and/or ethers and/or ketones as well as optionally aromatic

hydrocarbons, additional water as well as additives and cpds. of lead characterised in that the fuel contains 0-10 Vol.-% of ethanol with more water than the water content of the ethanol/waterazeotrop (at normal pressure), 0-10 Vol.-% of butanol(s) and 0-5 Vol.-% of methanol and/or 0-15 Vol.-% of methyltert.-butylether and/or 0-15 Vol.-% of acetone.

(6pp)

TITLE-TERMS: HYDROCARBON BASED GASOLINE CONTAIN OXYGENATE ADDITIVE ETHANOL MORE AZEOTROPE CONCENTRATE WATER BUTANOL

DERWENT-CLASS: E17 H06

CPI-CODES: E10-E04L; E10-F02C; E10-H01; H06-B01;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

H4 H401 H481 H8 M210 M211 M212 M214 M233 M272  
M281 M320 M416 M620 M782 M903 M910 Q414 R023

Chemical Indexing M3 \*02\*

Fragmentation Code

H5 H581 H8 M210 M211 M214 M233 M272 M282 M320  
M416 M620 M782 M903 M910 Q414 R023

Chemical Indexing M3 \*03\*

Fragmentation Code

J5 J581 M210 M211 M262 M282 M320 M416 M620 M782  
M903 M910 Q414 R023

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0245U; 0270U ; 0272U ; 0373U ; 1568U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1984-106162